

AMENDMENTS TO THE ABSTRACT:

Please replace the paragraph (Abstract) beginning at page 22, line 1 with the following rewritten version:

~~A means for detecting a presence of a particular material in the air, a filter for an air conditioner which can confirm the presence of the particular material in the air, and a method for confirming a performance of the filter for an air conditioner about a removal of the particular material and/or a lifetime of the filter for an air conditioner are provided.~~

The A particular material present in the air is detected by a color change of a colorimetric sensor ~~comprising including~~ a receptor molecule and a polymer molecule. The receptor molecule specifically ~~binding binds~~ binds with the particular material in the air, ~~and a~~ The polymer molecule ~~whose has an altered~~ light absorbency is ~~altered~~ due to binding of the particular material and the receptor molecule.